

1653

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/209,799D

DATE: 03/08/2001
 TIME: 12:51:47

Input Set : A:\X-10242 Sequence Listing.txt
 Output Set: N:\CRF3\03082001\I209799D.raw

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3 <110> APPLICANT: Hermeling, Ronald
 4 Hoffmann, James
 5 Narasimhan, Chakravarthy
 7 <120> TITLE OF INVENTION: GLUCAGON-LIKE PEPTIDE-1 CRYSTALS
 9 <130> FILE REFERENCE: X-10242
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/209,799D
 C--> 12 <141> CURRENT FILING DATE: 1998-12-11
 14 <160> NUMBER OF SEQ ID NOS: 29
 16 <170> SOFTWARE: PatentIn version 3.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 31
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Homo sapiens
 23 <400> SEQUENCE: 1
 25 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 26 1 5 10 15
 28 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
 29 20 25 30
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 31
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Artificial
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: synthetic construct
 39 <220> FEATURE:
 40 <221> NAME/KEY: VARIANT
 41 <222> LOCATION: (1)..(1)
 42 <223> OTHER INFORMATION: Xaa at position 1 is L-histidine, D-histidine, desamino-histidine
 43 , 2-amino-histidine, beta-hydroxy-histidine, homohistidine, alpha
 44 -fluoromethyl-histidine, and alpha-methyl-histidin
 47 <220> FEATURE:
 48 <221> NAME/KEY: VARIANT
 49 <222> LOCATION: (2)..(2)
 50 <223> OTHER INFORMATION: Xaa at position 2 is Ala, Gly, Val, Thr, Met, Ile, and alpha-meth
 51 yl-Al
 54 <220> FEATURE:
 55 <221> NAME/KEY: VARIANT
 56 <222> LOCATION: (15)..(15)
 57 <223> OTHER INFORMATION: Xaa at position 15 is Glu, Gln, Ala, Thr, Ser, and Gly
 60 <220> FEATURE:
 61 <221> NAME/KEY: VARIANT
 62 <222> LOCATION: (21)..(21)
 63 <223> OTHER INFORMATION: Xaa at position 21 is Glu, Gln, Ala, Thr, Ser, and Gly
 66 <220> FEATURE:
 67 <221> NAME/KEY: VARIANT
 68 <222> LOCATION: (31)..(31)
 69 <223> OTHER INFORMATION: Xaa at position 31 is NH2 and Gly-OH

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72 <400> SEQUENCE: 2
W--> 74 Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Xaa Gly
75 1 5 10 15
W--> 77 Gln Ala Ala Lys Xaa Phe Ile Ala Trp Leu Val Lys Gly Arg Xaa
78 20 25 30
80 <210> SEQ ID NO: 3
81 <211> LENGTH: 29
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial
85 <220> FEATURE:
86 <223> OTHER INFORMATION: synthetic construct
88 <220> FEATURE:
89 <221> NAME/KEY: VARIANT
90 <222> LOCATION: (28)..(28)
91 <223> OTHER INFORMATION: Xaa at position 28 is Lys or absent
94 <220> FEATURE:
95 <221> NAME/KEY: VARIANT
96 <222> LOCATION: (29)..(29)
97 <223> OTHER INFORMATION: Xaa at position 29 is Gly or absent;and, if Xaa at position 28 is
98 absent, Xaa at position 29 must be absen
101 <400> SEQUENCE: 3
103 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
104 1 5 10 15
W--> 106 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Xaa Xaa
107 20 25
109 <210> SEQ ID NO: 4
110 <211> LENGTH: 31
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <223> OTHER INFORMATION: synthetic construct
117 <220> FEATURE:
118 <221> NAME/KEY: VARIANT
119 <222> LOCATION: (1)..(1)
120 <223> OTHER INFORMATION: Xaa at position 1 is 4-imidazopropionyl, 4-imidazoacetyl, or 4-im
121 idazo-a, a dimethyl-acety
124 <220> FEATURE:
125 <221> NAME/KEY: VARIANT
126 <222> LOCATION: (20)..(20)
127 <223> OTHER INFORMATION: Xaa at position 20 is Lys or Arg
130 <220> FEATURE:
131 <221> NAME/KEY: VARIANT
132 <222> LOCATION: (31)..(31)
133 <223> OTHER INFORMATION: Xaa at position 31 is Gly-OH or NH2
136 <400> SEQUENCE: 4
W--> 138 Xaa Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
139 1 5 10 15
W--> 141 Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Xaa
142 20 25 30

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144 <210> SEQ ID NO: 5
145 <211> LENGTH: 31
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial
149 <220> FEATURE:
150 <223> OTHER INFORMATION: synthetic construct
152 <220> FEATURE:
153 <221> NAME/KEY: VARIANT
154 <222> LOCATION: (2)..(2)
155 <223> OTHER INFORMATION: Xaa at position 2 is Val
158 <400> SEQUENCE: 5
W--> 160 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
      161 1                      5                      10                      15
      163 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
      164                      20                      25                      30
166 <210> SEQ ID NO: 6
167 <211> LENGTH: 29
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial
171 <220> FEATURE:
172 <223> OTHER INFORMATION: synthetic construct
174 <220> FEATURE:
175 <221> NAME/KEY: VARIANT
176 <222> LOCATION: (13)..(13)
177 <223> OTHER INFORMATION: Xaa at position 13 is Glu, Gln, Ala, Thr, Ser or Gly
180 <220> FEATURE:
181 <221> NAME/KEY: VARIANT
182 <222> LOCATION: (19)..(19)
183 <223> OTHER INFORMATION: Xaa at position 19 is Glu, Gln, Ala, Thr, Ser or Gly
186 <220> FEATURE:
187 <221> NAME/KEY: VARIANT
188 <222> LOCATION: (29)..(29)
189 <223> OTHER INFORMATION: Xaa at position 29 is Gly or absent
192 <400> SEQUENCE: 6
W--> 194 Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Xaa Gly Gln Ala
      195 1                      5                      10                      15
W--> 197 Ala Lys Xaa Phe Ile Ala Trp Leu Val Lys Gly Arg Xaa
      198                      20                      25
200 <210> SEQ ID NO: 7
201 <211> LENGTH: 30
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: synthetic construct
208 <220> FEATURE:
209 <221> NAME/KEY: VARIANT
210 <222> LOCATION: (19)..(19)
211 <223> OTHER INFORMATION: Xaa at position 19 is Lys or Arg
214 <220> FEATURE:

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215 <221> NAME/KEY: VARIANT
216 <222> LOCATION: (30)..(30)
217 <223> OTHER INFORMATION: Xaa at position 30 is Gly or is absent; and Lys at position 27 ma
218     y be acylate
221 <400> SEQUENCE: 7
223 Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln
224 1          5          10          15
W--> 226 Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Xaa
227          20          25          30
229 <210> SEQ ID NO: 8
230 <211> LENGTH: 28
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial
234 <220> FEATURE:
235 <223> OTHER INFORMATION: synthetic construct
237 <400> SEQUENCE: 8
239 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
240 1          5          10          15
242 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys
243          20          25
245 <210> SEQ ID NO: 9
246 <211> LENGTH: 29
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial
250 <220> FEATURE:
251 <223> OTHER INFORMATION: synthetic construct
253 <400> SEQUENCE: 9
255 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
256 1          5          10          15
258 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly
259          20          25
261 <210> SEQ ID NO: 10
262 <211> LENGTH: 30
263 <212> TYPE: PRT
264 <213> ORGANISM: Artificial
266 <220> FEATURE:
267 <223> OTHER INFORMATION: synthetic construct
269 <400> SEQUENCE: 10
271 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
272 1          5          10          15
274 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
275          20          25          30
277 <210> SEQ ID NO: 11
278 <211> LENGTH: 31
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial
282 <220> FEATURE:
283 <223> OTHER INFORMATION: synthetic construct
285 <400> SEQUENCE: 11

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RAW SEQUENCE LISTING DATE: 03/08/2001
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Input Set : A:\X-10242 Sequence Listing.txt
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287 His Ala Gln Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
288 1                      5                      10                      15
290 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
291                      20                      25                      30
293 <210> SEQ ID NO: 12
294 <211> LENGTH: 31
295 <212> TYPE: PRT
296 <213> ORGANISM: Artificial
298 <220> FEATURE:
299 <223> OTHER INFORMATION: synthetic construct
301 <220> FEATURE:
302 <221> NAME/KEY: VARIANT
303 <222> LOCATION: (3)..(3)
304 <223> OTHER INFORMATION: Xaa at position 3 is D-Gln
307 <400> SEQUENCE: 12
W--> 309 His Ala Xaa Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
310 1                      5                      10                      15
312 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
313                      20                      25                      30
315 <210> SEQ ID NO: 13
316 <211> LENGTH: 31
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial
320 <220> FEATURE:
321 <223> OTHER INFORMATION: synthetic construct
323 <400> SEQUENCE: 13
325 His Ala Glu Gly Thr Phe Thr Ser Asp Thr Ser Lys Tyr Leu Glu Gly
326 1                      5                      10                      15
328 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
329                      20                      25                      30
331 <210> SEQ ID NO: 14
332 <211> LENGTH: 31
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial
336 <220> FEATURE:
337 <223> OTHER INFORMATION: synthetic construct
339 <400> SEQUENCE: 14
341 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Lys Tyr Leu Glu Gly
342 1                      5                      10                      15
344 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
345                      20                      25                      30
347 <210> SEQ ID NO: 15
348 <211> LENGTH: 30
349 <212> TYPE: PRT
350 <213> ORGANISM: Artificial
352 <220> FEATURE:
353 <223> OTHER INFORMATION: synthetic construct
355 <400> SEQUENCE: 15
357 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

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FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 03/08/2001
PATENT APPLICATION: US/09/209,799D TIME: 12:51:48

Input Set : A:\X-10242 Sequence Listing.txt
Output Set: N:\CRF3\03082001\I209799D.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27